

**METHOD FOR IMPROVING RF SPECTRUM EFFICIENCY  
WITH REPEATER BACKHAULS**

**ABSTRACT**

5 A spectrally efficient wireless communication system that includes a plurality  
of base stations communicating indirectly with a plurality of wireless  
communications devices through a plurality of repeaters. The method can generally  
comprise communicating indirectly between a first base station and a wireless  
communication device using a first repeater and a first RF backhaul link. A control  
10 processor associated with the first base station can control a first smart antenna  
system. The system selectively configures the first smart antenna system to  
spatially isolate communications on the first RF backhaul from communications on  
a second RF backhaul of a second repeater.